E325 RELAY (3PDT/25A)

Built to MIL-PRF-83536

FEATURES

- Balanced force design provides the benefit of consistently high contact pressure, reduced bounce, and less arching leading to extended contact life
- A variety of coil options are available which allow AC and DC control
- Welded hermetically sealed, non-corrosive enclosure
- Wide choice of mounting and terminal styles

APPLICATIONS

- Rail
- Aerospace
- Ground vehicle
- Built to MIL-PRF-83536 for severe condition applications

GENERAL CHARACTERISTICS

- No. of Poles: 3 Form C (3PDT)
- Dimensions: 1.025" x 1.025" x 1.010"
  (26.0 x 26.0 x 25.7) mm
- Weight
  Mounting Code 4: 0.21 lb. (95.6 grams)
  All Others: 0.18 lb. (82 grams)

SWITCHING CHARACTERISTICS

- Operate Time @ +25°C
  EA325: 20 ms. Max
  All Others: 15 ms. Max
- Bounce Time
  EA325: 2 ms. Max
  All Others: 1 ms. Max
- Mechanical Life: Up to 400,000 Cycles

ENVIRONMENTAL CHARACTERISTICS

- Temperature Range: -70°C to +125°C

- Vibration (Sinusoidal)
  Mounting Code 3: 20g 57-3,000 Hz
  All Others: 30g 10-3,000 Hz
- Shock (Any Axis)
  Mounting Code 3: 100g, 6 ms
  All Others: 200g, 6 ms
- Seal: Hermetic ($1x10^{-8}$ atm cm^3/s)

ELECTRICAL CHARACTERISTICS

- Contact Voltage Drop (at Rated Resistive Load)
  Initial: 150 mV Max.
  After Guaranteed Life: 175 mV Max.
- Dielectric Strength @ Sea Level

	Coil to Case	All Other Points
Initial @ 60 Hz:	1,000 V_{rms}	1,250 V_{rms}
After Life Test @ 60 Hz:	1,000 V_{rms}	1,000 V_{rms}

- Insulation Resistance
  Initial: 100 MΩ Min, @ 500 Vdc
  After Life Test: 50 MΩ Min, @ 500 Vdc

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CONTACT RATING (AMPS)

Type of Load (High Level)	Cycles x 10^3	28 Vdc	115 Vac 400 Hz 1 Phase	115/200 Vac 400 Hz 3 Phase
Resistive	50	25	25	25
Inductive	10	12	N/A	N/A
Inductive	20	N/A	15	15
Motor	50	10	10	10
Lamp	50	5	5	5

Note: 115 Vac 50/60 Hz life reduced to 10,000 Cycles for all load types

PART NUMBERING

Part Number

E325
ES325
EA325 E 2 C D

BASIC SERIES

E325	3PDT
ES325	3PDT w/ Internal Voltage Suppression
EA325	3PDT w/ AC Coil

COIL CODE

MOUNTING CODE

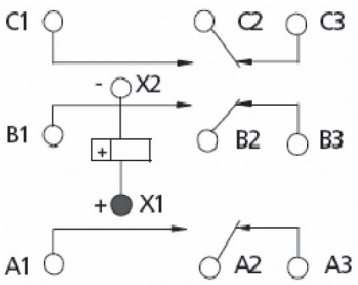
TERMINAL CODE

OPTIONS

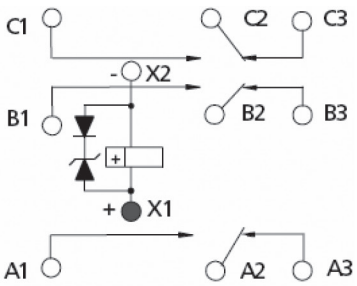
D	Catalog Standard
A	Delete Arc Barriers
xxxx	Special Code, Assigned by TE

CIRCUIT DIAGRAM

*Y COIL LAST ENERGIZED



E325 / EA325



ES325 w/Internal Voltage Suppression

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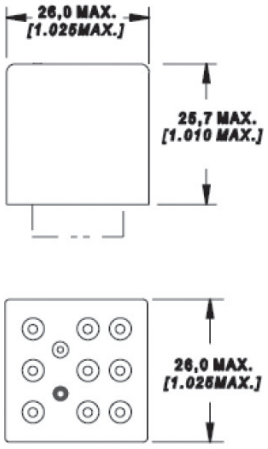
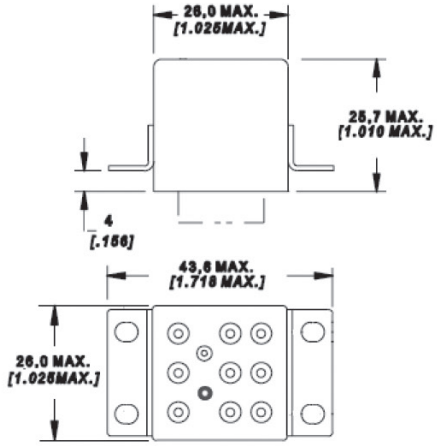
COIL CODE

Coil Code	Vdc						Vac	
	A	B	D	E	G	J	L	N
Nominal coil voltage: 6 12 26.5 28 48 110	6	12	26.5	28	48	110	115 400 Hz	115 50-400 Hz
Maximum pick-up voltage @ +25°C	3.2	6.5	13.5	14	24	55	72	72
Maximum pick-up voltage @ +125°C	4.5	9	18.7	19.5	36	70	90	90
Maximum hold voltage @ +125°C	2.3	4.5	7	7	14	30	30	40
Minimum drop-out voltage @ -70°C	0.25	0.5	1.2	1.5	2	5	5	5
Coil resistance (Ω ± 10% @ +25° C)	18	70	290	290	955	5000	-	-
Max Coil Transient suppression (ES325 Only) Vdc:	-42	-42	-42	-42	-100	-227	N/A	N/A

MOUNTING CODE



Mount 1



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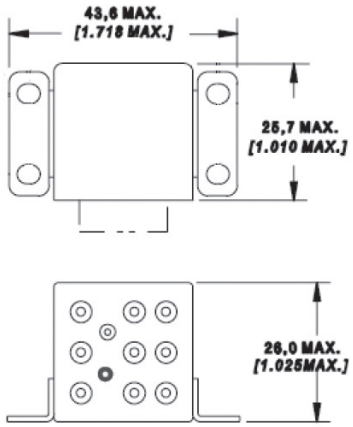

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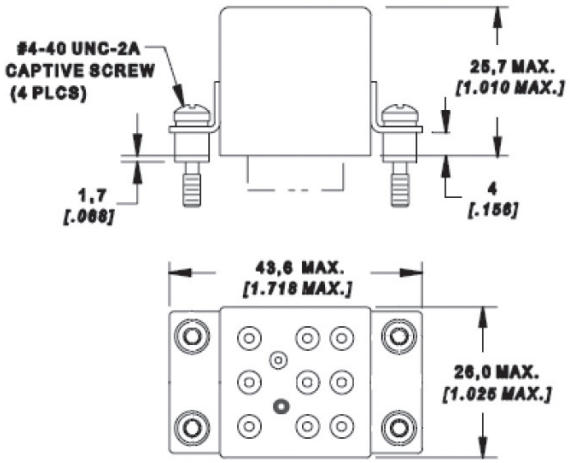
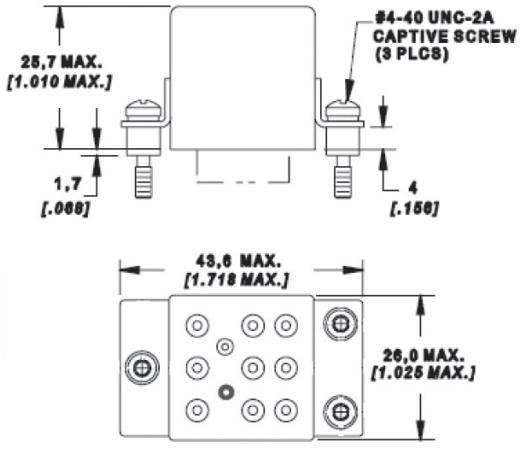
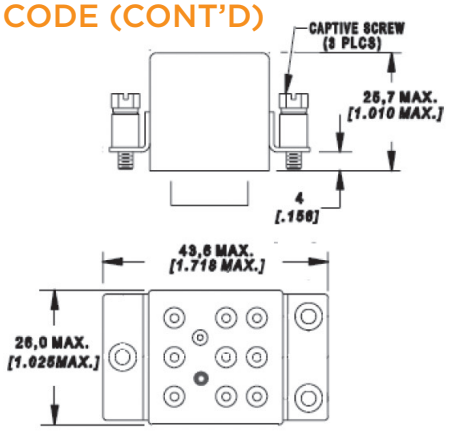


Mount P

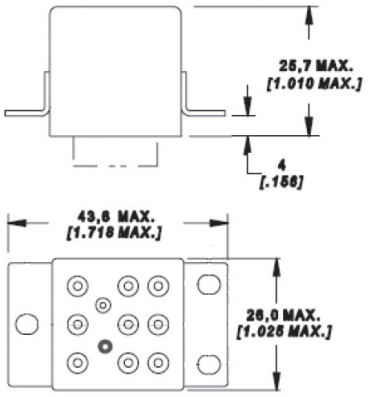


Mount G

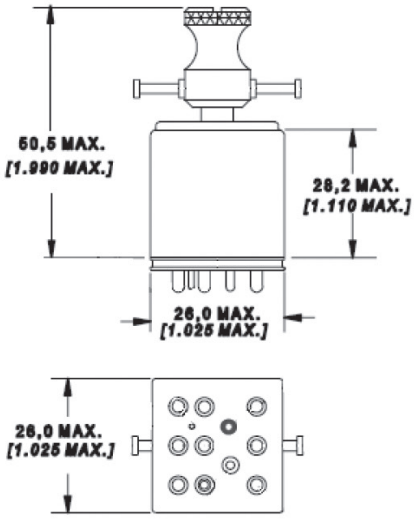
MOUNTING CODE (CONT'D)



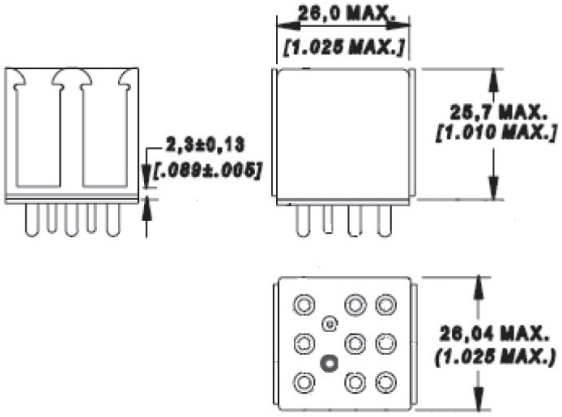
Mount 8: M3
Mount C: #4-40 UNC



Mount H

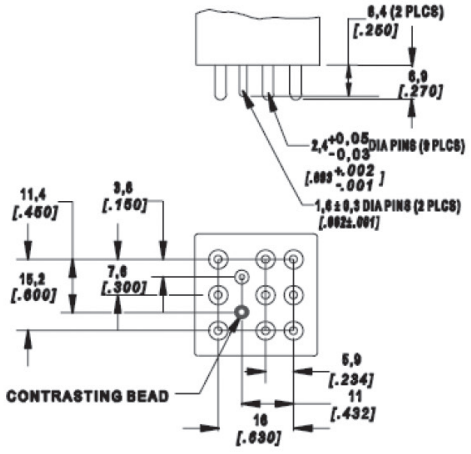


Mount 5: Requires Terminal C

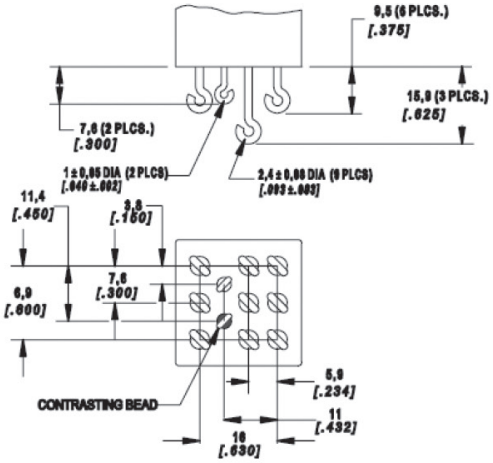


Mount 6: Requires Terminal C

TERMINAL CODE

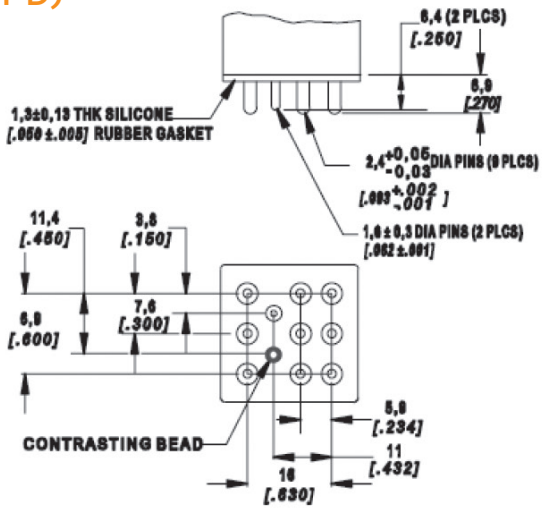


Terminal A: Tin Plated
Terminal B: Solder Dipped

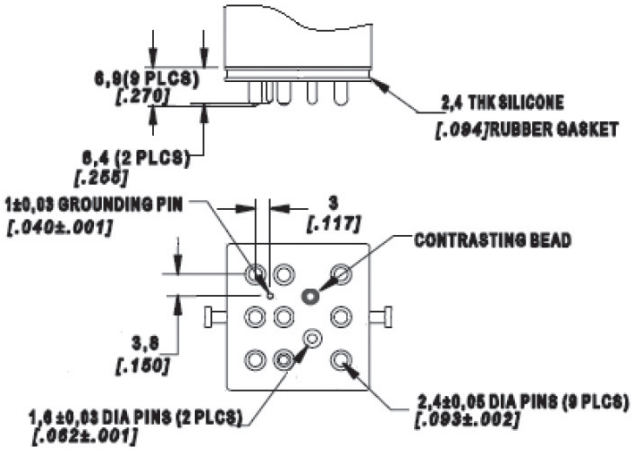


Terminal H: Tin Plated
Terminal J: Solder Dipped

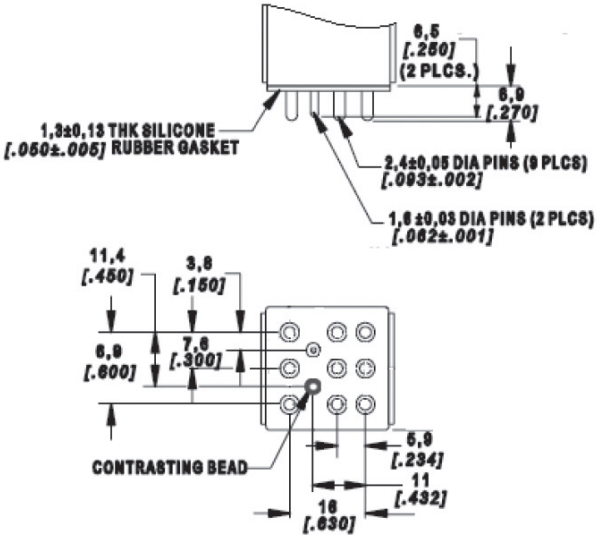
TERMINAL CODE (CONT'D)



Terminal C: Gold Plated



Terminal C: Gold Plated (Mount 5)



Terminal C: Gold Plated (Mount 6)

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